



KHPA Data Analytic Interface (DAI) Project

Advantage Suite Overview

Data Consortium Meeting – February 3, 2010

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THOMSON REUTERS

HIGHLIGHTS

- Overview
 - Decision Analyst
 - Net Effect
- Market Scan Benchmarking
- Medical Episode Groupers (MEGs)/Disease Staging
- HEDIS-based measures
- Extensive Documentation
- Other Value-Add Features:
 - Custom Subsets, List Import, Provider Profiling, Patient Profiling, Disease Management, Program Integrity



ADVANTAGE SUITE – PRODUCT FEATURES

- Measures Catalog with more than 2,500 customizable performance measures
- All capabilities can be applied to managed care encounter data, as well as fee-for-service claims
- Private sector & Medicaid norms, benchmarks, and practice guidelines
- Content rich metadata
- Age-gender, population, case-mix, and severity adjustment
- Vulnerable population stratification and analysis
- Episodes of care and admissions groupings
- Plan comparisons
- Alert technology
- Predictive modeling
- Study groups
- Scoring and risk-adjusted peer group comparisons
- Disease management conditions
- Uniquely intuitive report design capabilities
- Claims completion methodologies

ADVANTAGE SUITE – A FULLY INTEGRATED SOLUTION FOR:

- Plan management
- Strategy design
- Program design
- Medical management evaluation
- Identification of medical management opportunities
- Wellness evaluation
- Identification of cost drivers
- Vendor performance measurement and accountability
- Measurement of overall program effectiveness
- Financial management
- Annual budget setting and management
- Annual rate and contribution setting
- Tracking of actual vs. expected costs
- Early identification of trends
- Management reporting
- Claims lag reports for reserve calculations



ADVANTAGE SUITE COMPONENTS

Decision Analyst

- Flexible, powerful, drag-an-drop functionality
- Thousands of measures
- Advanced sub-setting, time frames
- Highly customized

Net Effect

- AKA “Web-Based Management Reporting”
- Summary reports with custom “slicers”
- Ex: Drug Plan evaluation reports, cost driver analysis, cost benchmark comparison, high cost patients

Example Reports: Decision Analyst

Avoidable Admissions Analysis

Time Periods	ROLLING YEAR Previous	ROLLING YEAR Current	ROLLING YEAR Difference	ROLLING YEAR % Change			
	Measures	Admits Acute	Admits Per 1000 Acute	Days LOS Admit Acute	Days Per 1000 Adm Acute	Allowed Amount Admit Acute	Allow An Adm Act
Subsets							
Avoidable Admit Angina without Procedure							
Avoidable Admit Asthma							
Avoidable Admit Bacterial Pneumonia							
Avoidable Admit CHF							
Avoidable Admit COPD							
Avoidable Admit Dehydration							
Avoidable Admit Diabetes							
Avoidable Admit Hypertension							
Avoidable Admit Low Birth Weight							
Avoidable Admit Pediatric Gastroenteritis							
Avoidable Admit Perforated Appendix							
Avoidable Admit Urinary Tract Infection							

Example Reports: Decision Analyst

Top 100 Drugs (results)

		B	C	D	E	F	G	H	I	J	K
1	Subset	All Data									
2	Time Period	Dec 2008 - Nov 2009									
3											
4		M	E								
5	Product Name	Rank	Net Pay Rx	Net Pay Per Script Rx	Scripts Per Pat Rx	Scripts Rx	Rank	Net Pay Rx	Net Pay Per Script Rx	Scripts Per Pat Rx	Scripts Rx
61	ABILIFY	1	\$12,049,387.67	\$329.58	5.96	36,560	45	\$327,336.73	\$298.39	3.96	1,097
62	SEROQUEL	2	\$8,258,251.74	\$197.02	6.89	41,915	27	\$451,381.10	\$177.08	6.31	2,549
63	ALPHANATE	3	\$5,486,849.84	\$52,758.17	14.86	104	N/A	\$0.00	N/A	N/A	0
64	PREVACID	4	\$5,469,607.01	\$112.16	5.97	48,766	35	\$389,073.88	\$76.71	5.18	5,072
65	ZYPREXA	5	\$4,330,229.57	\$329.40	6.80	13,146	N/A	N/A	N/A	N/A	N/A



Net Effect

THOMSON
MEDSTAT

MEDSTAT
ADVANTAGE SUITE®

February 16, 2006

BETTER INFORMATION.
BETTER RESULTS.

Employer Management Reports

Tools

Select a topic:

Performance Summary ▶

Medical Plan Evaluation ▶

Drug Plan Evaluation ▶

Cost Management Strategies ▶

Financial and Eligibility Trends ▶

Service Category ▶

Drug Plan Evaluation

Prescription Drug Analysis

Prescription Drug Change Analysis provides an analytical summary of pharmacy program performance. Use this report to identify year-over-year changes in price and use measures, prescription drug cost trends that may need further investigation and overall performance in generic substitution and efficiency.

Health Plan Cost Comparison

Health Plan Drug Cost Comparison displays pharmacy program enrollment and cost measures by medical health plan. Use this report to identify health plans with potentially undisciplined prescribing patterns for further investigation.

Generic Cost and Use

Prescription Drug Generic Cost and Use Analysis displays cost and utilization information for generic vs. brand drugs. Use this report to identify the classes of drugs that hold the most potential for improved generic efficiency.

Mail Order Experience

Prescription Drug Mail Order Experience displays the percent of maintenance drugs filled in a mail order setting. Use this report to monitor the penetration and financial performance of your mail order program relative to the retail setting.

Top 25 Drugs

Top 25 Drugs displays key measures of cost, price, use and intensity for the top 25 prescription drugs, sorted by net payments. Use this report to identify opportunities to improve pharmacy benefit program performance.

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Version Information

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Example Reports: Net Effect

Slicers Capability:

From a list, end users can easily choose single values or combinations of values for a number of reporting dimensions: Member Status, Coverage Type, Plan, Business Unit, Hourly/Salaried, Union/Non-Union (if applicable), and Time Period.

You can also select which benchmark to use for comparison by clicking on the “Select Benchmark” button at the top of the slicer

Cost Benchmark Comparison

Close

Jan - Dec, 2004

Select Benchmark

U.S. Total

About Benchmarks

Claims Paid Through: Jun 2005

Incurred YTD

..Active

All Plans

All Business Units

All Coverage Types

..Hourly

All Union NonUnion

All Union NonUnion

..Non-Union

..Union

..Missing

All Account IDs

All Networks

Allowed Amount

Hide Table

Show Chart

Measures	Actual	Benchmark	% Difference
Allowed Amount PMPY Med Cmpl	\$1,377.70	\$2,314.90	-40.5%
Allowed Amount PMPY Admit Acute	\$385.90	\$730.85	-47.2%
Allowed Amount PMPY OP Med Cmpl	\$936.46	\$1,537.12	-39.1%
Allowed Amount PMPY Rx Cmpl	\$342.81	\$548.43	-37.5%
Allowed Amount PEPY Med Cmpl	\$3,582.44	\$6,048.11	-40.8%
Allowed Amount PEPY Admit Acute	\$1,003.44	\$1,996.17	-49.7%
Allowed Amount PEPY OP Med Cmpl	\$2,435.09	\$3,922.58	-37.9%
Allowed Amount PEPY Rx Cmpl	\$891.42	\$1,548.03	-42.4%

Out of Pocket

Hide Table

Show Chart

Measures	Actual	Benchmark	% Difference
Out of Pocket PEPY Med and Rx Cmpl	\$460.10	\$1,540.45	-70.1%

Net Payments

Hide Table

Show Chart

Measures	Actual	Benchmark	% Difference
Net Pay PMPY Med Cmpl	\$1,242.39	\$1,807.85	-31.3%
Net Pay PMPY Admit Acute	\$370.30	\$603.67	-38.7%

Example Reports: Net Effect

Percent Contribution of High Cost Patients

Explore Hide Table Hide Chart

Service Categories	Jan - Dec, 2003	Jan - Dec, 2004
Facility Inpatient	26.35%	32.50%
Facility Outpatient	7.42%	5.70%
Laboratory Outpatient	2.46%	2.86%
MHSA	0.29%	0.50%
Other Professional Services	15.37%	18.25%
Physician Inpatient	12.76%	14.73%
Physician Outpatient	2.11%	2.20%
Prescription Drugs	0.89%	1.84%
Radiology Outpatient	2.52%	4.27%

Chart Options

Select Column(s)

- ☐ Select All
☐ Jan - Dec, 2003
☐ Jan - Dec, 2004

Select Row(s)

- ☐ Select All
☐ Facility Inpatient
☐ Facility Outpatient
☐ Laboratory Outpatient
☐ MHSA
☐ Other Professional Services

Chart Title

Chart Type

Color Palette

Legend Location

Bar Chart

Standard

Bottom

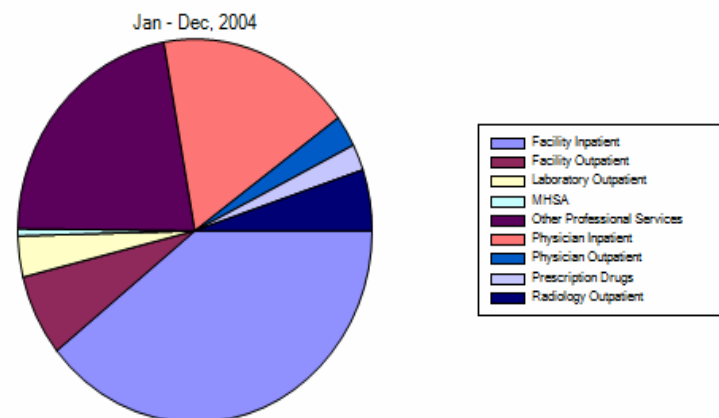
Apply Chart Options

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Explore Hide Table Hide Chart

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Service Category Summary

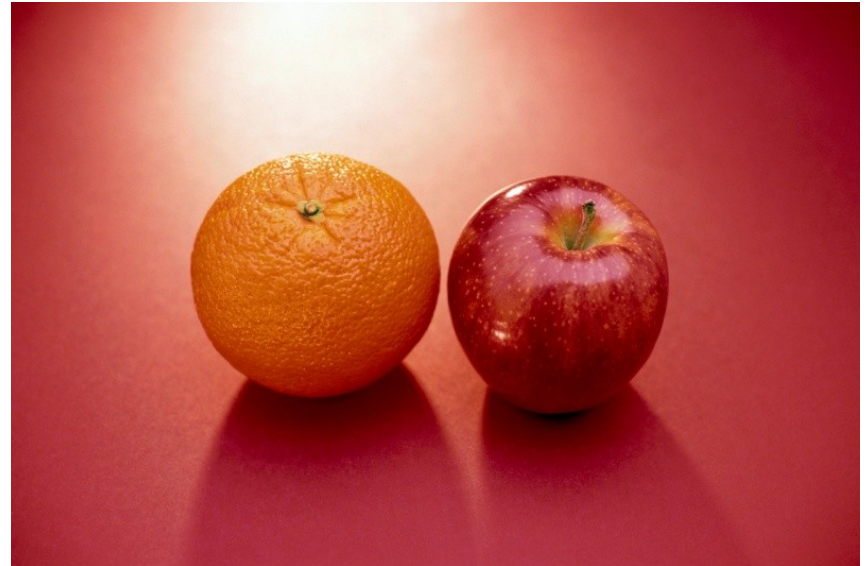


Edit Chart Options

Pivot Chart

MARKET SCAN BENCHMARKS

- Broad geographic coverage (national, regional, state, intrastate)
- Over 73 million unique patients
- Over 36 million hospital discharges
- Commercial, Medicare Supplemental, Medicaid, and Benefit Plan Design
- Used in more than 100 publications in the past 5 years



NATIONALLY ENDORSED* QUALITY MEASURES

Coronary Artery Disease

- Drug Therapy for Lowering LDL Cholesterol
- Beta-Blocker Treatment after a Heart Attack
- Beta-Blocker Therapy Post-MI
- Cholesterol Screen
- Lipid Profile
- Antiplatelet Therapy
- Beta-Blocker Therapy Prior-MI
- ACEI/ARB Therapy

Heart Failure

- ACEI/ARB Therapy
- LVF Assessment
- Beta-Blocker Therapy
- Warfarin Therapy Patients with Atrial Fibrillation

Asthma

- Use of Appropriate Medications for People with Asthma

Diabetes

- HbA1C Management
- Lipid Measurement
- Eye Exam
- Microalbumin Test for Nephropathy

Behavioral Health

- Antidepressant Medication Management - Acute Phase
- Antidepressant Medication Management - Continuation Phase
- Optimal Practitioner Contacts for Medication Management

Misuse/Overuse

- Appropriate Treatment for Children with Upper Respiratory Infection (URI)
- Appropriate Testing for Children with Pharyngitis

Bone Disease

- Osteoporosis Management in Women who have had a Fracture

Preventive

- Breast Cancer Screening
- Colorectal Cancer Screening
- Cervical Cancer Screening
- Influenza Vaccination
- Pneumonia Vaccination
- Childhood Immunization Status



MEDICAL EPISODE GROUPERS (MEGs)

- **Disease profiling** of populations
 - What conditions are driving cost? Where are they most prevalent? etc.
- **Detailed analysis of specific conditions**
 - Price, incidence, practice patterns, outcomes, etc.
- **Fair comparison of physicians**
 - ...by assigning responsible physician and adjusting for differences in underlying condition severity (specialist profiling)

WHAT IS AN EPISODE?

- A summary of the care related to a given occurrence of a condition for a particular patient
- A combination of inpatient, outpatient, and prescription drug treatment for that condition




Episode of Care for URI

Ex: An Episode of a Broken Leg

1


A boy goes to the emergency room after a fall and sees a doctor...



Date	Procedure	Dx	Provider	Pay
1/1	ER Visit	Broken leg	Hosp A	\$250
1/1	Evaluation	Broken leg	Phys A	\$150

2


...who orders an x-ray and cast...



Date	Proc	Dx	Provider	Pay
1/1	X-Ray	Leg injury	Hosp A	\$225
1/1	X-Ray	Leg injury	Phys B	\$170
1/1	Cast	Broken leg	Phys A	\$135

3

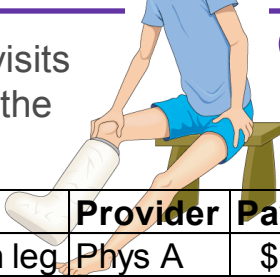
which is filled the next day.



Date	Drug	Pay
1/2	Ibuprofen 800mg	\$70

4

One month later, the boy visits his doctor's office to have the cast removed.



Date	Proc	Dx	Provider	Pay
2/1	Management	Broken leg	Phys A	\$90
2/1	Cast removed	Broken leg	Phys A	\$180

This care is summarized by one summary record, which is linked to all of the associated services:

Start Date	Episode Group	High Disease Stage	Managing Physician	Total Pay	Rad Pay	ER Visits
1/1	286 Fracture of Tibia	1.6 Linear fracture w/displacement	Phys A	\$1,270	\$395	1

Other major uses of Advantage Suite

- Advanced Custom Sub-setting
- Provider Profiling (Physician Performance Assessment)
- Patient Profiling
- Disease Management
- Program Integrity (Payment Integrity)
- Treatment Cost Calculator



Questions?

